

IN THE CLAIMS:

1. (Currently Amended) An articulated industrial robot, comprising: a robot arm including a plurality of arm components swingably connected to one another by connection shafts; and a base to which the robot arm is connected, wherein

the robot arm includes arm actuation means for swinging the arm components,

the arm components includes a first arm component at a tip side of the robot arm, the first arm component having a wrist at its tip-side end, and

the arm components includes a second arm component which is closer to the base than the first arm component is, the second arm component being divided at an axially intermediate position into a base-side part and a tip-side part, and the second arm component having rotation means for rotating the tip-side part around the arm axis relative to the base-side part[.]

the rotation means includes a drive shaft extending in the arm axis direction and having a thread groove in its outer surface, a moving device for axially moving the drive shaft, and a threaded member meshed with the thread groove of the drive shaft, and

the moving device is fixed to one of the base-side part and the tip-side part, while the threaded member is fixed to the other.

2. (Currently Amended) The industrial robot of claim 1, wherein:

~~the rotation means includes a drive shaft extending in the arm axis direction and having a thread groove in its outer surface, a moving device for axially moving the drive shaft, and a threaded member meshed with the thread groove of the drive shaft; and~~

~~the moving device is fixed to one of the base-side part and the tip-side part, while the threaded member is fixed to the other[.]~~

the base-side part and the tip-side part are hollow; and

the moving device is contained in one of the base-side part and the tip-side part, while the threaded member is contained in the other.

3. (Currently Amended) The industrial robot of ~~claim 2, wherein:~~
~~the base side part and the tip side part are hollow; and~~
~~the moving device is contained in one of the base side part and the tip~~
~~side part, while the threaded member is contained in the other[.] claim 1 or 2,~~
wherein the moving device includes a nut meshed with the thread groove of the
drive shaft, a motor for rotating the nut around the drive shaft, and a speed
reduction mechanism for reducing a rotation speed of the output shaft of the
motor to transmit a torque of the motor to the nut.
4. (Currently Amended) The industrial robot of ~~claim 2 or 3, wherein the moving~~
~~device includes a nut meshed with the thread groove of the drive shaft, a motor~~
~~for rotating the nut around the drive shaft, and a speed reduction mechanism for~~
~~reducing a rotation speed of the output shaft of the motor to transmit a torque of~~
~~the motor to the nut~~ any one of claims 1 to 3, wherein the first arm component
includes wrist actuation means for reciprocating the wrist in the arm axis
direction.
5. (Cancelled)